1110055008 – McHenry County
Mirage Development/Algonquin
Superfund/HRS

# CERCLA

## Pre-Cerclis Screening Action

Illinois Environmental
Protection Agency

# CERCLA
# PRE-CERCLIS ACTION REPORT

for:

**Mirage Development**
**ALGONQUIN, ILLINOIS**

PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
OFFICE OF SITE EVALUATION

August 12, 2002

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## FIGURES and TABLES

# 1.0 SITE BACKGROUND

*1.1 Site Introduction*

The Mirage Development site consists of approximately 2 acres with a large 3-story building approximately 450' by 72' located on-site. The McHenry County Prairie Trail is a popular bicycle and jogging trail located approximately 25' west of the main building. A school, church and residences are located immediately south of the site. A city park is located directly east of the site. Crystal Creek is located north of the site and flows southeast through the park and flows to the Fox River. Groundwater flows southeast, generally in the same direction as Crystal Creek, towards the Fox River.

Portions of the Mirage Development site were sampled as part of a Phase II Environmental Assessment conducted by Versar Inc. on May 21, 1992. Soil analysis from areas of the site revealed elevated levels of polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs) and petroleum products.

*1.2 Site History*

The site has a history of industrial use dating back to the early 1900s. Operations over the years have included the manufacture of ammunition easings, ironing machines, washing machines, commercial appliances, and whirlpool spas. All of these operations likely used hazardous substances in the manufacture of their products and for maintenance of the building.

The American Ironing Machine Company owned the Mirage Development site from 1928 to 1948. Ironing machines were produced during this time. From 1948 to 1956, the site was owned by Speed Queen Corporation aka Barlow Seelig Manufacturing Company. The Speed Queen Corporation produced commercial laundry equipment. From 1956 to 1980, the site was

owned by the McGraw Edison Company. It is possible that McGraw Edison bought the Speed Queen operation (http://www.toaster.org/tmaster_history.html) and continued producing commercial laundry equipment. In 1980, BIH Food Service Inc. and the Hussman Corporation owned the site. Until 1989, BIH Food Service Inc. was producing food service equipment and it is unknown at this time what the Hussman Corporation was producing. In 1989, the site was owned by Texas Star, which leased out portions of the building to beginning companies. Some examples of companies that occupied the site include a sewing contractor, antique store, spa manufacturer, toy store, and various other companies. Sometime in 2001, the site was purchased and the back taxes paid by a private individual. There is still one active company renting space within the building. In either 2003 or 2004 the site will be demolished for the construction of a new bypass by Illinois Department of Transportation (IDOT).

In 1992, a Phase I inspection conducted by Versar Inc. revealed drums of oils, greases, trichloroethylene, lacquer thinner, tar, toluene, and latex paints. These chemicals were observed in and around the building. Also in 1992, the same company conducted a Phase II Assessment. Soil analysis revealed contamination of lead, polychlorinated biphenyls, total petroleum hydrocarbons, and VOCs at the site. In 1994, three groundwater-monitoring wells were installed on site to characterize the groundwater concentration of contaminants. Elevated levels of VOCs were detected in two of the three wells. Groundwater seems to be flowing in an east/southeast direction.

## 2.0 FIELD INVESTIGATION ACTIVITIES AND ANALYTICAL RESULTS

*2.1 Past Environmental Investigations*

Versar conducted a Phase I Environmental Audit of the Mirage Development property in 1989 and a Phase I resurvey on March 25, 1992. Several recommendations were made regarding future sampling and additional data requirements to be conducted at the Mirage Development site. During the original Phase I inspection, drums of oils, greases, trichloroethylene, lacquer thinner, tar, toluene, and latex paints were observed in and around the building. During the 1992 resurvey of the site, the site was occupied by a whirlpool manufacturer (ASA). The occupant had in the past and/or was currently using some hazardous substances in the manufacture of whirlpool spas, including a methyl ethyl ketone/peroxide catalyst, acetone, paints, and polyester resins containing vinyl toluene and/or styrene. An area of old rusted drums was identified in the bank of a ravine adjacent to the northeast corner of the property. These drums were identified as being empty and badly rusted.

During May 21, 1992, Versar began the Phase II assessment. The purpose of Versar's sampling visit was to determine if any of the previously identified environmental concerns had potentially contaminated soil and groundwater. Soil and subsurface soil samples were collected and analyzed. The analytical results from the Phase II Assessment revealed the presence of on-site contamination. Four types of contamination (metals, polychlorinated biphenyls (PCBs), petroleum products, and VOCs) were detected (Attachment A).

During this sampling effort, a small pipe was discovered adjacent to the western edge of the raised platform. When the cap was removed, organic vapor readings approximately 100 parts per million (ppm) were obtained with an Hnu 101 photoionization detector (PID). The drum

piles northeast of the fence were examined. Some of the drums were observed to contain a silvery gray solid although all of these drums were previously thought to be empty. In addition, the soil core sample collected from the area just inside the fence near the drum pile had some material that appeared to be paint sludge mixed in the surficial soil. Two small plastic-lined cardboard boxes filled with an oily substance and one gallon metal container of creosote oil are present in the scale house. In the basement of the building, a steel sump is present. The sump is about four feet in diameter and of unknown depth. An oily fluid is in the sump and the liquid level was about three feet below the surface of the floor. The brick walls that surround the 24,000-gallon fuel oil storage tank were leaking oil in several locations and former leaks that had dried into a tarry consistency were observed dripping from the ceiling or the floor above at several locations in the tank room.

On June 20, 1996, an inspection was conducted by the Des Plaines Region Office at the facility in response to a special request from the Office of the Attorney General. This specieal request was prompted by the McHenry County States Attorney's Office. During this investigation, it was discovered that the property lessee was Blue Sky Investments. At the time of this inspection, there were thirteen different companies occupying the building. Since taking possession of the building, Blue Sky Investments installed three groundwater-monitoring wells. Groundwater samples, collected by the lessee of the property at the time, from one of the wells showed that the groundwater was contaminated with high concentrations of chlorinated solvents. While another well located in the southern portion of the property revealed very low concentrations of contaminants. These laboratory analytical results are unavailable, but a narrative confirming the existence of the contaminants is available (Attachment B, June 20, 1996

Narrative). There were also approximately 80 drums of waste being stored behind the building.

On September 18 and 24, 1999, an inspection was conducted by the Des Plaines Regional Office at the site in response to a complaint that alleged that 50 drums of Trichloroethylene were buried in the rear parking and causing groundwater contamination. During the initial September 1998 inspections, no evidence of buried drums were observed, but there were seven metal drums in poor condition which contained acetone, and twenty 5 gallon pails, some of which were labeled sealer, and a metal box containing batteries. On November 28 and 29, 2000, a state contractor removed these items.

During the September inspection, three on-site monitoring wells were sampled. The results of the three samples revealed Trichloroethylene, 1,1-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, and Tetrachloroethylene above the 620 Class I Groundwater Quality Standards (Attachment C, September 1998 Groundwater Results).

*2.2 Field Inspection*

On April 9, 2001, Illinois EPA conducted a reconnaissance of the Mirage Development site located at 401 Washington Street, Algonquin, Illinois. The inspection consisted of a visual reconnaissance of the building and property. During the inspection of the building, the basement was inspected. The basement contained a sump pump in a depression filled with water that was approximately 3 feet deep. The water in the depression had a rainbow sheen to it. There were also oil seeps from a defunct heating oil furnace. Water was present in areas of the concrete floor.

The 1$^{st}$ floor has been abandoned and is in disrepair. Water has leaked from holes in the

roof and has collapsed insulation and tile throughout most of the 1st floor of the building. The 2nd floor contains a business that produces custom veneer interiors. The offices and workshop areas of this company are in good condition. The remainder of the 2nd and 3rd floors of the building were closed off with plastic covering, or locked by gates.

The ground surrounding the facility consists of a parking lot, a loading area, and grassy areas. A fence surrounds the site, but in the north area of the site, there is a gap in the fence through which people and animals can gain access to the site. To the north of this gap in the fence is a wooded area and grounds of the park. Crystal Creek runs through the park that connects to the Fox River, approximately 300 yards from the site.

The three monitoring wells have been removed from the site. The parking lot is composed of asphalt and still appears to be in good condition. No staining is apparent on the asphalt parking lot. The loading area consists of gravel with some areas of concrete. The scale house is no longer present, and the pit that used to house the scales is filled with yard debris. All entrances to the building were secured. The building is in general disrepair. The grassy areas surrounding the building do not appear stunted or discolored in any way. It is unknown if any underground storage tanks are present.

There was no evidence of drums (leaking or rusting) anywhere on or near the site. The area surrounding the old generator is fenced and vegetated.

Upon talking with the property owner, the site is in the pathway of a new bypass being constructed by the Illinois Department of Transportation (IDOT) in 2003 or 2004. The building will be demolished and a Phase I investigation will be conducted by IDOT. No samples were collected or screened during the Site Reconnaisance.

## 3.0 MIGRATION PATHWAYS

The Office of Site Evaluation identifies three migration pathways and one exposure pathway, as identified in CERCLA's Hazard Ranking System, by which hazardous substances may pose a threat to humans and/or the environment. Consequently, sites are evaluated on their known or potential impact to these pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure, and air migration.

*3.1 Groundwater Pathway*

The source of Algonquin's drinking water comes from a blend of eight deep and shallow groundwater wells. Two of the wells are approximately 1300 feet deep and draw water from the Ironton-Galesville Aquifer. One well is 910 feet deep and draws water from the St. Peter Sandstone Aquifer. The other wells are considered shallow and range from 104 to 347 feet in depth and draw from sand and gravel aquifers.

From previous samples collected from on-site monitoring wells, it was determined that VOCs had contaminated the shallow aquifer. It is unclear at this time at what depth the monitoring wells were screened. It is assumed that the VOC contamination found in the groundwater is attributable to the activities that occurred at the Mirage Development site. During the September inspection, three on-site monitoring wells were sampled. The results of the three samples revealed Trichloroethylene, 1,1-Dichloroethylene, Cis-1,2-Dichloroethylene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, and Tetrachloroethylene above the 620 Class I Groundwater Quality Standards (Attachment C, September 1998 Groundwater Results). There has not been any detection of VOCs in the city wells, according to information published by the

Village of Algonquin. There does not appear to be any private drinking wells located within 4 miles of the site.

*3.2 Surface Water Pathway*

Water from the site ultimately drains east toward the Crystal Creek. Crystal Creek is approximately 100 yards east and north of the property. Crystal Creek flows approximately 300 yards where it connects to the Fox River.

According to the Federal Emergency Management Flood Insurance Maps, Crystal Creek is within the 100-year flood plain, but the Mirage Development property is not. Information from the U.S. Department of the Interior Wetland Maps indicates that Crystal Creek is a perennial stream. These maps do not indicate any wetlands along Crystal Creek, or any wetlands nearby. The Fox River is listed as a fishery by the Illinois Department of Natural Resources.

No surface water samples were collected during this investigation.

*3.3 Soil Exposure*

A private contractor collected samples from the Mirage Development property in 1992. The analytical results from the soil samples indicated the presence of on-site contamination. Polychlorinated Biphenyls were found in one sample at 2000 parts per billion (ppb). Total Petroleum Hydrocarbons (TPH) was detected in one sampled at 560 ppm. Numerous VOCs were detected across the site. The VOCs detected were: 1,1,1-Trichloroethane, Trichloroethene, Tretrachloroethene, Tetrachloromethane, Methylene Chloride, Toluene, Ethylbenzene, Xylene, Ketones, and other various VOCs (Attachment C).

*3.4 Air Route*

No air samples were collected at this time.

# Figures and Tables

*Figure 1*
*Site Location Map*

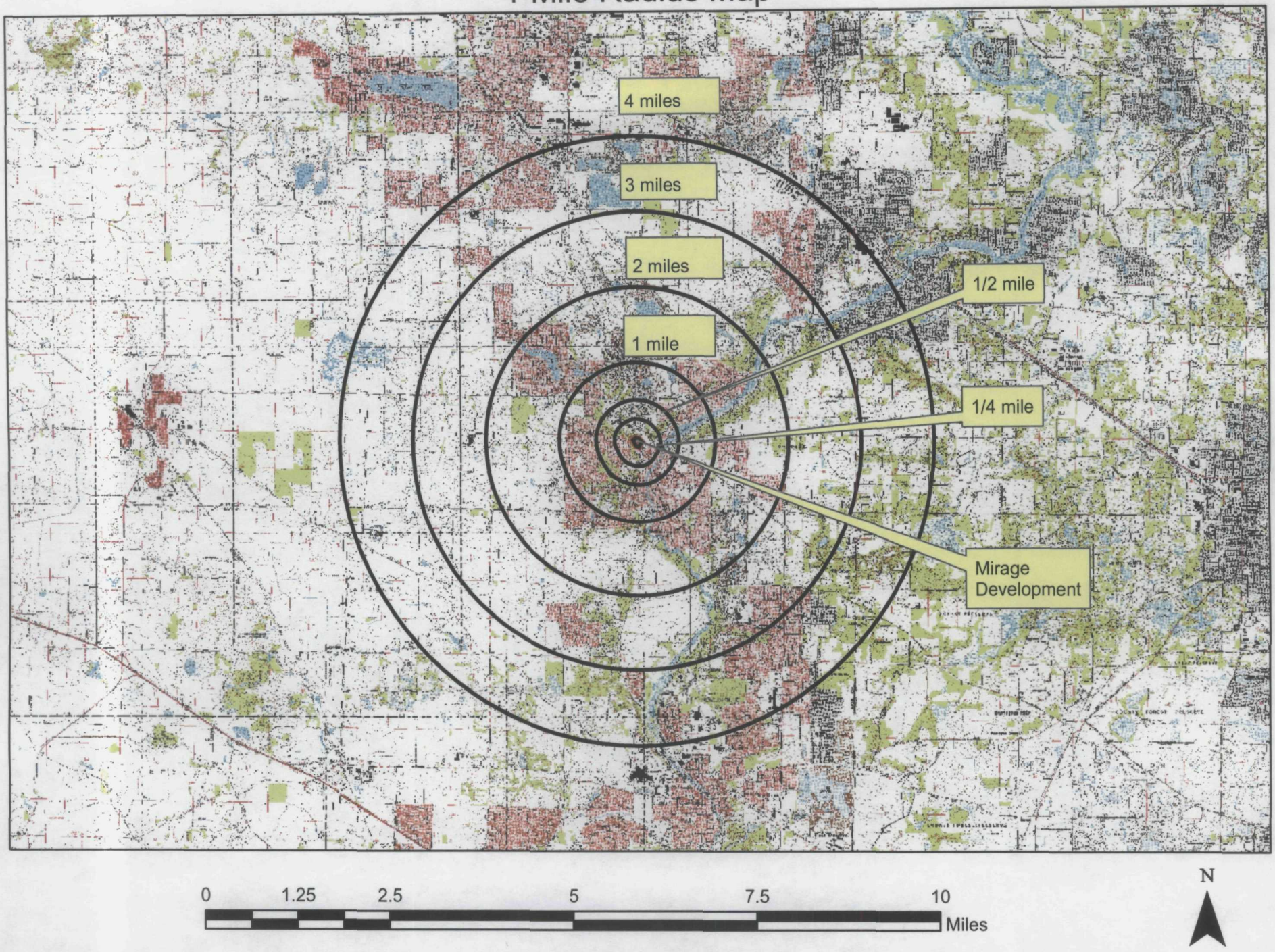
# Figure 1
# Site Location Map

Figure 2
Site Area Map

# Figure 2. Site Area Map

Figure 3
4-Mile Radius Map

# Figure 3
# 4-Mile Radius Map



# Attachment A
# Phase II Assessment (1992)

# Attachment A
# Analytical Results from Phase II Assessment (1992)

| Compounds/analytes | S-1S | S-1D | S-2D | S-3D | S-4D | 0S-5 | S-6 | S-7 | S-8S | S-8D | S-9 | S-10 | Method Detection Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| **VOCs (ug/kg)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 14 | -- | -- | 11 | -- | NA | 75 | NA | 29000 | 3200 | 55 | 3300 | 1 |
| Trichloroethane | -- | -- | 16 | -- | 10 | NA | 9 | NA | 4900 | 330 | -- | 2400 | 1 |
| Tetrachloroethane | -- | 4 | -- | -- | -- | NA | 7 | NA | 2100 | 140 | -- | 11 | 1 |
| Tetrachloromethane | 14 | -- | 14 | 25 | -- | NA | -- | NA | -- | 26 | -- | 6 | 1 |
| Methylene Chloride | -- | -- | -- | -- | -- | NA | -- | NA | 190 | 460 | -- | -- | 1 |
| 1,1-dichloroethane | -- | -- | -- | -- | -- | NA | -- | NA | -- | -- | -- | 110 | 1 |
| 1,1,2,2-tetrachloroethane | -- | -- | 7 | -- | -- | NA | -- | NA | -- | -- | -- | -- | 1 |
| 1,2,3-trichloropropane | 16 | -- | -- | -- | -- | NA | -- | NA | -- | -- | -- | -- | 1 |
| Dibromomethane | -- | 5 | -- | -- | -- | NA | -- | NA | -- | -- | -- | -- | 1 |
| Styrene | -- | -- | -- | -- | -- | NA | -- | NA | -- | -- | 30 | -- | 1 |
| Toluene | -- | 5 | 6 | -- | -- | NA | -- | NA | 21 | -- | 8 | 30 | 1 |
| Ethylbenzene | -- | 9 | -- | -- | -- | NA | -- | NA | 10 | -- | 8 | 10 | 1 |
| Xylenes (total) | 49000 | 85 | 23 | 3 | -- | NA | -- | NA | 40 | -- | 26 | 49 | 3 |
| Methyl ethyl ketone | -- | -- | 95 | -- | 78 | NA | -- | NA | -- | -- | -- | -- | 50 |
| Acetone | -- | -- | -- | -- | -- | NA | -- | NA | -- | 1300 | -- | -- | 75 |
| | | | | | | | | | | | | | |
| **METALS (mg/kg)** | | | | | | | | | | | | | |
| Lead (total) | 18 | -- | -- | -- | 7.6 | NA | NA | NA | 3.2 | NA | 15 | 5.9 | 2 |
| Cadmium (total) | -- | -- | -- | -- | -- | NA | NA | NA | -- | NA | -- | -- | 2 |
| | | | | | | | | | | | | | |
| **TPH (mg/kg)** | 560 | -- | -- | -- | -- | NA | -- | -- | NA | NA | | | 10 |
| | | | | | | | | | | | | | |
| **PCBs (ug/kg)** | NA | NA | NA | NA | NA | | NA | NA | | | NA | NA | |
| Aroclor 1242 | | | | | | -- | | | 2000 | -- | | | 500 |

NA = Not Analyzed
-- = Not Detected at the method detection limits

# Attachment B
# June 20, 1996 Narrative

**NARRATIVE**
Prepared By: Tina Kovasznay

On June 20, 1996, an inspection was conducted at 401 Washington St. in response to a special request from the Office of the Attorney General. Upon arrival on-site, I met with Bill Lensch, owner of Blue Sky Investments, who accompanied me on a tour of the property.

Prior to the site walk through, I spoke to [redacted] attorney. [redacted] stated that Blue Sky Investments is the current property owner, and that ASA/Pool America moved out of the building in 1991. According to [redacted], Blue Sky Investments only has title to the property with the building on it, not the other parcel containing the buried drums. Per [redacted], that parcel is in trust under the name ASA. Mr. Boyd also stated that Blue Sky Investments is currently bringing an action against the Hussman Corporation (Toastmaster) for past contamination. Toastmaster occupied this building prior to ASA, and the on-site contamination appears to have been caused by the type of chemicals which Toastmaster used in their production process. Currently, there are thirteen different companies occupying the building, most of which do not generate any hazardous or special wastes.

Since taking possession of the property, [redacted] installed 3 groundwater monitoring wells on-site to determine if the groundwater has been impacted. Samples from the middle well show that the groundwater is contaminated with high concentrations of chlorinated solvents. The south well only shows very low concentrations of contaminants.

[redacted] and I walked behind the facility where he showed me the area where buried drums are popping out of the ground. I also observed over 80 drums of waste being stored behind the facility on property leased by Blue Sky. According to [redacted], the drums are full of solid resin left behind by ASA who manufactured hot tubs and pools. Although some of these drums did appear to be filled with a solid material, some had liquids in them. [redacted] stated that a consulting company had completed an assessment on the drums, but that report was not made available to me.

Because Blue Sky Investments is currently bring an action against the Hussman Corporation for past contamination in order to clean up the site, it does not appear as if any action is necessary by the Agency at this time. Tom Crause, RPMS, will be made aware of the on-site contamination.

**Apparent Violations**

722.111 - A hazardous waste determination must be made on the drums being stored on-site.

808.121(a) - A special waste determination must be made on the drums being stored on-site.

# Attachment C
# September 1998 Groundwater Results

Illinois Environmental Protection Agency
DLPC/FOS Unit Sample Document
Analyses (circle 1): Inorganic Organic
Page of

Fund [10]: LP41
Section [14]: F
IPC # [17]: 1110025 -008
USEPA #: ILD039612163
Section/Unit: BOL/FOS - MAYWOOD

County: McHENRY
Locality: ALGONQUIN
Site Name [19]: MIRAGE DEVELOPMENT

Project Manager's Name and Mailing Address: GINO S BRUNI, 1701 S. FIRST AVE, Suite 600, MAYWOOD IL 60153

IEPA Laboratory Address and Phone Number (circle one)
2125 S 1st Street, Champaign, IL 61820, 217/333-6907
(825 N. Rutledge Street, Springfield, IL 62702, 217/782-9780)

Phone #: 708 338-7960
Case # (if applicable):

| Lab Sample # [01] | Parameter Group [03] & Other Analytes: VOCs | Split "2" Is yes | SAVE (y/n) | # Bottles | [15] Field Sample # | [20] Date Collected & Sealed | [21] Time Collected (24 hr clk) | Time Sealed (24 hr clk) | [22] Sampler's Initials | [24] Special Notations | Seal Intact? (y/n) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D81299-71 | ✓ | | Y | 2 | G101 | 9-24-98 | 1110 | 1115 | GB | D81024 | Y |
| D81299-72 | ✓ | | Y | 2 | G102 | 9-24-98 | 1200 | 1205 | GB | D81025 | Y |
| D81299-73 | ✓ | | Y | 2 | G103 | 9-24-98 | 1305 | 1310 | GB | D81026 | Y |
| D81299-74 | ✓ | | N | 2 | BLANKS | N/A | N/A | N/A | N/A | D81027 | N |

LEGAL HOLD

RECEIVED
OCT 14 1998
IEPA-DLPC

BUREAU OF LAND POLLUTION CONTROL STATE OF ILLINOIS
RECEIVED ENVIRONMENTAL PROTECTION AGENCY

Receipt for Samples: Collection of the above-listed sample(s) at the indicated site is hereby acknowledged.
Signature/Title of Facility Representative, Date:
Split(s) Offered? y (n) Accepted? y / n N/A

Samplers (printed names and signatures): GINO S. BRUNI

Sealer: I certify that the samples listed above were sealed by me and I wrote my initials, the date, and the time on the seal(s).
Sealer's Signature & Initials: GB | Date: 9-28-98 | Time (24 hr clk): 1455

Carriers: I certify that I received the container(s) holding the above sample(s) with the seal(s) intact and the sealer's initials and sealing date written on the seal(s).

| Relinquished by | Date | Time (24 hr clk) | Received by | Date | Time (24 hr clk) |
|---|---|---|---|---|---|
| (Sealer) GINO S. BRUNI | 9-28-98 | 1455 | | | |
| | | | | | |

☐ To Container for Shipment

Laboratory Custodian: I certify that I received the container holding the above sample(s) with the seal integrity as indicated above and the sealer's initials and the date written on the seal(s). After being received, this/these same sample(s) will be retained by laboratory personnel at all times or locked in a secured area.

Printed Name, Signature, and Initials [07]: GARY L. STEPPIES | Date [05]: SEP 29 1998 | Time [06] (24 hr clk): 0915

Supervisor releasing results (signature): Date: OCT 13 1998

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MPLE NUMBER : D812024
MPLING POINT DESC. : G101/MCHENRY/ALGONQUIN/MIRAGE DEVELOPMEN

BMITTING SOURCE # : 1110055008 SITE # : ILD03961263
TE COLLECTED : 980924 TIME COLLECTED : 1110 SAMPLING PROGRAM :

LLECTED BY : G B DELIVERED BY : UPS
MMENTS : VOCS/LEGAL HOLD
NDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
M TYPE CODE : SAMPLE PURPOSE CODE : F REPORTING INDICATOR : B

TE RECEIVED : 980929 TIME RECEIVED : 0915 RECEIVED BY : G S
B OBSERVATIONS : 2-40ML VOCS TRIP BL SAM# : D812027
PERVISORS INITIALS : GLG NOTE : K = LESS THAN VALUE

| | | | |
|---|---|---|---|
| 4418 | CHLOROMETHANE | UG/L | 10K |
| 4413 | BROMOMETHANE | UG/L | 10K |
| 9175 | VINYL CHLORIDE | UG/L | 10K |
| 4311 | CHLOROETHANE | UG/L | 10K |
| 4423 | METHYLENE CHLORIDE | UG/L | 5.0K |
| 1552 | ACETONE | UG/L | 10K |
| 4483 | TRICHLOROFLUOROMETHANE | UG/L | 5.0K |
| 72 | BROMOCHLOROMETHANE | UG/L | 5.0K |
| 70 | CARBON DISULFIDE | UG/L | 5.0K |
| 4501 | 1,1-DICHLOROETHYLENE | UG/L | 5.0K |
| 4496 | 1,1-DICHLOROETHANE | UG/L | 11 |
| 4540 | TRANS-1,2-DICHLOROETHYLENE | UG/L | 5.0K |
| 7093 | CIS-1,2-DICHLOROETHYLENE | UG/L | 9.2 |
| 2106 | CHLOROFORM | UG/L | 5.0K |
| 4531 | 1,2-DICHLOROETHANE | UG/L | 5.0K |
| 1595 | 2-BUTANONE(MEK) | UG/L | 10K |
| 4506 | 1,1,1-TRICHLOROETHANE | UG/L | 34 |
| 2102 | CARBON TETRACHLORIDE | UG/L | 5.0K |
| 7057 | VINYL ACETATE | UG/L | 10K |
| 2101 | DICHLOROBROMOMETHANE | UG/L | 5.0K |
| 4541 | 1,2-DICHLOROPROPANE | UG/L | 5.0K |
| 4704 | CIS-1,3-DICHLOROPROPENE | UG/L | 5.0K |
| 9180 | TRICHLOROETHYLENE | UG/L | 55 |
| 2105 | CHLORODIBROMOMETHANE | UG/L | 5.0K |
| 4511 | 1,1,2-TRICHLOROETHANE | UG/L | 5.0K |
| 8124 | BENZENE | UG/L | 5.0K |
| 4699 | TRANS-1,3-DICHLOROPROPENE | UG/L | 5.0K |
| 45 | 2-CHLOROETHYLVINYL ETHER | UG/L | 5.0K |
| 21 | BROMOFORM | UG/L | 5.0K |

4PLE NUMBER : 0812024

| | | | | |
|---|---|---|---|---|
| 78133 | 4-METHYL-2-PENTANONE(MIBK) | UG/L | : | 10K |
| 77103 | 2-HEXANONE(MBK) | UG/L | : | 10K |
| 34475 | TETRACHLOROETHYLENE | UG/L | : | 5.0K |
| 34510 | 1,1,2,2-TETRACHLOROETHANE | UG/L | : | 5.0K |
| 78131 | TOLUENE | UG/L | : | 5.0K |
| 34301 | CHLOROBENZENE | UG/L | : | 5.0K |
| 78113 | ETHYLBENZENE | UG/L | : | 5.0K |
| 77128 | STYRENE | UG/L | : | 5.0K |
| 81551 | XYLENE | UG/L | : | 5.0K |
| 72019 | DEPTH TO WATER | FT | : | -- |
| 71993 | ELEV.OF GW SURFACE | FT | : | -- |
| 72008 | WELL DEPTH,TOTAL | FT | : | -- |
| 00431 | ALKALINITY,TOTAL | MG/L | : | -- |
| 00090 | REDOX POTEN.-FIELD | MV | : | -- |
| 00400 | PH,FIELD | UNITS | : | -- |
| 00094 | COND.(EC)FIELD | UM/CM | : | -- |
| 00010 | TEMPERATURE,WATER | DEG.C | : | -- |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

AMPLE NUMBER : D812025
AMPLING POINT DESC. : G102/MCHENRY/ALGONQUIN/MIRAGE DEVELOPMEN

UBMITTING SOURCE # : 1110055008 SITE # : ILD039612163
ATE COLLECTED : 980924 TIME COLLECTED : 1200 SAMPLING PROGRAM :

OLLECTED BY : G B DELIVERED BY : UPS
OMMENTS : VOCS/LEGAL HOLD
UNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
AM TYPE CODE : SAMPLE PURPOSE CODE : F REPORTING INDICATOR : B

ATE RECEIVED : 980929 TIME RECEIVED : 0915 RECEIVED BY : G S
AB OBSERVATIONS : 2-40ML VOCS TRIP BL SAM# : D812027
UPERVISORS INITIALS : GLG NOTE : K = LESS THAN VALUE

| | | | |
|---|---|---|---|
| 34418 | CHLOROMETHANE | UG/L | 10K |
| 34413 | BROMOMETHANE | UG/L | 10K |
| 39175 | VINYL CHLORIDE | UG/L | 10K |
| 34311 | CHLOROETHANE | UG/L | 10K |
| 34423 | METHYLENE CHLORIDE | UG/L | 5.0K |
| 81552 | ACETONE | UG/L | 10K |
| 34488 | TRICHLOROFLUOROMETHANE | UG/L | 5.0K |
| 77[illegible]7 | BROMOCHLOROMETHANE | UG/L | 5.0K |
| 77[illegible]1 | CARBON DISULFIDE | UG/L | 5.0K |
| 34501 | 1,1-DICHLOROETHYLENE | UG/L | 93 |
| 34496 | 1,1-DICHLOROETHANE | UG/L | 300 |
| 34546 | TRANS-1,2-DICHLOROETHYLENE | UG/L | 5.0K |
| 77093 | CIS-1,2-DICHLOROETHYLENE | UG/L | 550 |
| 32106 | CHLOROFORM | UG/L | 5.0K |
| 34531 | 1,2-DICHLOROETHANE | UG/L | 5.0K |
| 81595 | 2-BUTANONE(MEK) | UG/L | 10K |
| 34506 | 1,1,1-TRICHLOROETHANE | UG/L | 6600 |
| 32102 | CARBON TETRACHLORIDE | UG/L | 5.0K |
| 77057 | VINYL ACETATE | UG/L | 10K |
| 32101 | DICHLOROBROMOMETHANE | UG/L | 5.0K |
| 34541 | 1,2-DICHLOROPROPANE | UG/L | 5.0K |
| 34704 | CIS-1,3-DICHLOROPROPENE | UG/L | 5.0K |
| 39180 | TRICHLOROETHYLENE | UG/L | 410 |
| 32105 | CHLORODIBROMOMETHANE | UG/L | 5.0K |
| 34511 | 1,1,2-TRICHLOROETHANE | UG/L | 14 |
| 78124 | BENZENE | UG/L | 5.0K |
| 34699 | TRANS-1,3-DICHLOROPROPENE | UG/L | 5.0K |
| 34576 | 2-CHLOROETHYLVINYL ETHER | UG/L | 5.0K |
| 32[illegible] | BROMOFORM | UG/L | 5.0K |

4PLE NUMBER : 0812025

| | | | | |
|---|---|---|---|---|
| 78133 | 4-METHYL-2-PENTANONE(MIBK) | UG/L | : | 10K |
| 77103 | 2-HEXANONE(MBK) | UG/L | : | 10K |
| 34475 | TETRACHLOROETHYLENE | UG/L | : | 17 |
| 34516 | 1,1,2,2-TETRACHLOROETHANE | UG/L | : | 5.0K |
| 78131 | TOLUENE | UG/L | : | 5.0K |
| 34301 | CHLOROBENZENE | UG/L | : | 5.0K |
| 78113 | ETHYLBENZENE | UG/L | : | 5.0K |
| 77128 | STYRENE | UG/L | : | 5.0K |
| 81551 | XYLENE | UG/L | : | 5.0K |
| 72019 | DEPTH TO WATER | FT | : | -- |
| 71993 | ELEV.OF GW SURFACE | FT | : | -- |
| 72008 | WELL DEPTH,TOTAL | FT | : | -- |
| 00431 | ALKALINITY,TOTAL | MG/L | : | -- |
| 00090 | REDOX POTEN.-FIELD | MV | : | -- |
| 00400 | PH,FIELD | UNITS | : | -- |
| 00094 | COND.(EC)FIELD | UM/CM | : | -- |
| 00010 | TEMPERATURE,WATER | DEG.C | : | -- |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D812026
SAMPLING POINT DESC. : G103/MCHENRY/ALGONQUIN/MIRAGE DEVELOPMEN

SUBMITTING SOURCE # : 1110055008 SITE # : ILD039612163
DATE COLLECTED : 960924 TIME COLLECTED : 1305 SAMPLING PROGRAM :

COLLECTED BY : G B DELIVERED BY : UPS
COMMENTS : VOCS/LEGAL HOLD
FUNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : F REPORTING INDICATOR : B

DATE RECEIVED : 980929 TIME RECEIVED : 0915 RECEIVED BY : G S
LAB OBSERVATIONS : 2-40ML VOCS TRIP BL SAM# : D812027
SUPERVISORS INITIALS : GLG NOTE : K = LESS THAN VALUE

| | | | |
|---|---|---|---|
| P34418 | CHLOROMETHANE | UG/L | : 10K |
| P34413 | BROMOMETHANE | UG/L | : 10K |
| P39175 | VINYL CHLORIDE | UG/L | : 10K |
| P34311 | CHLOROETHANE | UG/L | : 10K |
| P34423 | METHYLENE CHLORIDE | UG/L | : 5.0K |
| P81552 | ACETONE | UG/L | : 10K |
| P34488 | TRICHLOROFLUOROMETHANE | UG/L | : 5.0K |
| P77297 | BROMOCHLOROMETHANE | UG/L | : 5.0K |
| P77041 | CARBON DISULFIDE | UG/L | : 5.0K |
| P34501 | 1,1-DICHLOROETHYLENE | UG/L | : 23 |
| P34496 | 1,1-DICHLOROETHANE | UG/L | : 52 |
| P34546 | TRANS-1,2-DICHLOROETHYLENE | UG/L | : 5.0K |
| P77093 | CIS-1,2-DICHLOROETHYLENE | UG/L | : 200 |
| P32106 | CHLOROFORM | UG/L | : 5.0K |
| P34531 | 1,2-DICHLOROETHANE | UG/L | : 5.0K |
| P81595 | 2-BUTANONE(MEK) | UG/L | : 10K |
| P34506 | 1,1,1-TRICHLOROETHANE | UG/L | : 1400 |
| P32102 | CARBON TETRACHLORIDE | UG/L | : 5.0K |
| P77057 | VINYL ACETATE | UG/L | : 10K |
| P32101 | DICHLOROBROMOMETHANE | UG/L | : 5.0K |
| P34541 | 1,2-DICHLOROPROPANE | UG/L | : 5.0K |
| P34704 | CIS-1,3-DICHLOROPROPENE | UG/L | : 5.0K |
| P39180 | TRICHLOROETHYLENE | UG/L | : 4600 |
| P32105 | CHLORODIBROMOMETHANE | UG/L | : 5.0K |
| P34511 | 1,1,2-TRICHLOROETHANE | UG/L | : 5.0K |
| P78124 | BENZENE | UG/L | : 5.0K |
| P34699 | TRANS-1,3-DICHLOROPROPENE | UG/L | : 5.0K |
| P34576 | 2-CHLOROETHYLVINYL ETHER | UG/L | : 5.0K |
| P32104 | BROMOFORM | UG/L | : 5.0K |

AMPLE NUMBER : D812026

| | | | | |
|---|---|---|---|---|
| P78133 | 4-METHYL-2-PENTANONE(MIBK) | | UG/L : | 10K |
| P77103 | 2-HEXANONE(MBK) | | UG/L : | 10K |
| P34475 | TETRACHLOROETHYLENE | | UG/L : | 11 |
| P34516 | 1,1,2,2-TETRACHLOROETHANE | | UG/L : | 5.0K |
| P78131 | TOLUENE | | UG/L : | 5.0K |
| P34301 | CHLOROBENZENE | | UG/L : | 5.0K |
| P78113 | ETHYLBENZENE | | UG/L : | 5.0K |
| P77128 | STYRENE | | UG/L : | 5.0K |
| P81551 | XYLENE | | UG/L : | 5.0K |
| P72019 | DEPTH TO WATER | FT : | -- | |
| P71993 | ELEV.OF GW SURFACE | FT : | -- | |
| P72008 | WELL DEPTH,TOTAL | FT : | -- | |
| P00431 | ALKALINITY,TOTAL | MG/L : | -- | |
| P00090 | REDOX POTEN.-FIELD | MV : | -- | |
| P00400 | PH,FIELD | UNITS : | -- | |
| P00094 | COND.(EC)FIELD | UM/CM : | -- | |
| P00010 | TEMPERATURE,WATER | DEG.C : | -- | |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

AMPLE NUMBER : D812027
AMPLING POINT DESC. : BLANK/D812024-026

UBMITTING SOURCE # : 1110055008 SITE # : ILD039612163
ATE COLLECTED : 980924 TIME COLLECTED : 1110 SAMPLING PROGRAM :

OLLECTED BY : G B DELIVERED BY : UPS
OMMENTS : BLANK/D812024-026/LEGAL HOLD
UNDING CODE : LP41 AGENCY ROUTING : -- UNIT CODE :
AM TYPE CODE : SAMPLE PURPOSE CODE : 8 REPORTING INDICATOR : B

ATE RECEIVED : 980929 TIME RECEIVED : 0915 RECEIVED BY : G S
AB OBSERVATIONS : 2-40ML VOC BLANKS TRIP BL SAM# :
UPERVISORS INITIALS : GLG NOTE : K = LESS THAN VALUE

| | | | |
|---|---|---|---|
| 34418 | CHLOROMETHANE | UG/L | : 10K |
| 34413 | BROMOMETHANE | UG/L | : 10K |
| 39175 | VINYL CHLORIDE | UG/L | : 10K |
| 34311 | CHLOROETHANE | UG/L | : 10K |
| 34423 | METHYLENE CHLORIDE | UG/L | : 5.0K |
| 81552 | ACETONE | UG/L | : 10K |
| 34488 | TRICHLOROFLUOROMETHANE | UG/L | : 5.0K |
| 77[illegible]7 | BROMOCHLOROMETHANE | UG/L | : 5.0K |
| 77[illegible]1 | CARBON DISULFIDE | UG/L | : 5.0K |
| 34501 | 1,1-DICHLOROETHYLENE | UG/L | : 5.0K |
| 34496 | 1,1-DICHLOROETHANE | UG/L | : 5.0K |
| 34546 | TRANS-1,2-DICHLOROETHYLENE | UG/L | : 5.0K |
| 77093 | CIS-1,2-DICHLOROETHYLENE | UG/L | : 5.0K |
| 32106 | CHLOROFORM | UG/L | : 5.0K |
| 34531 | 1,2-DICHLOROETHANE | UG/L | : 5.0K |
| 81595 | 2-BUTANONE(MEK) | UG/L | : 10K |
| 34506 | 1,1,1-TRICHLOROETHANE | UG/L | : 5.0K |
| 32102 | CARBON TETRACHLORIDE | UG/L | : 5.0K |
| 77057 | VINYL ACETATE | UG/L | : 10K |
| 32101 | DICHLOROBROMOMETHANE | UG/L | : 5.0K |
| 34541 | 1,2-DICHLOROPROPANE | UG/L | : 5.0K |
| 34704 | CIS-1,3-DICHLOROPROPENE | UG/L | : 5.0K |
| 39180 | TRICHLOROETHYLENE | UG/L | : 5.0K |
| 32105 | CHLORODIBROMOMETHANE | UG/L | : 5.0K |
| 34511 | 1,1,2-TRICHLOROETHANE | UG/L | : 5.0K |
| 78124 | BENZENE | UG/L | : 5.0K |
| 34699 | TRANS-1,3-DICHLOROPROPENE | UG/L | : 5.0K |
| 34[illegible]6 | 2-CHLOROETHYLVINYL ETHER | UG/L | : 5.0K |
| 3[illegible]4 | BROMOFORM | UG/L | : 5.0K |

MPLE NUMBER : D812027

| | | | | |
|---|---|---|---|---|
| 78133 | 4-METHYL-2-PENTANONE(MIBK) | | UG/L : | 10K |
| 77103 | 2-HEXANONE(MBK) | | UG/L : | 10K |
| 34475 | TETRACHLOROETHYLENE | | UG/L : | 5.0K |
| 34516 | 1,1,2,2-TETRACHLOROETHANE | | UG/L : | 5.0K |
| 78131 | TOLUENE | | UG/L : | 5.0K |
| 34301 | CHLOROBENZENE | | UG/L : | 5.0K |
| 78113 | ETHYLBENZENE | | UG/L : | 5.0K |
| 77128 | STYRENE | | UG/L : | 5.0K |
| 81551 | XYLENE | | UG/L : | 5.0K |
| 72019 | DEPTH TO WATER | FT : | -- | |
| 71993 | ELEV.OF GW SURFACE | FT : | -- | |
| 72008 | WELL DEPTH,TOTAL | FT : | -- | |
| 00431 | ALKALINITY,TOTAL | MG/L : | -- | |
| 00090 | REDOX POTEN.-FIELD | MV : | -- | |
| 00400 | PH,FIELD | UNITS : | -- | |
| 00094 | COND.(EC)FIELD | UM/CM : | -- | |
| 00010 | TEMPERATURE,WATER | DEG.C : | -- | |